



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/963,668

DATE: 10/10/2001

TIME: 10:56:12

Input Set : A:\000425 BTe AL1_Dpckaec.app

Output Set: N:\CRF3\10102001\I963668.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Degussa AG
 5 <120> TITLE OF INVENTION: Process for the fermentative preparation of
 6 L-amino acids using strains of the
 7 Enterobacteriaceae family.
 9 <130> FILE REFERENCE: 000425 BT
 11 <140> CURRENT APPLICATION NUMBER: US/09/963,668
 12 <141> CURRENT FILING DATE: 2001-09-27
 14 <160> NUMBER OF SEQ ID NOS: 19
 16 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 1622 1623 (p.3)
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Escherichia coli
 23 <220> FEATURE:
 24 <221> NAME/KEY: CDS
 25 <222> LOCATION: (1)..(1620)
 26 <223> OTHER INFORMATION: pckA
 28 <400> SEQUENCE: 1
 29 atg cgc gtt aac aat ggt ttg acc ccg caa gaa ctc gag gct tat ggt 48
 30 Met Arg Val Asn Asn Gly Leu Thr Pro Gln Glu Leu Glu Ala Tyr Gly
 31 1 5 10 15
 33 atc agt gac gta cat gat atc gtt tac aac cca agc tac gac ctg ctg 96
 34 Ile Ser Asp Val His Asp Ile Val Tyr Asn Pro Ser Tyr Asp Leu Leu
 35 20 25 30
 37 tat cag gaa gag ctc gat ccg agc ctg aca ggt tat gag cgc ggg gtg 144
 38 Tyr Gln Glu Glu Leu Asp Pro Ser Leu Thr Gly Tyr Glu Arg Gly Val
 39 35 40 45
 41 tta act aat ctg ggt gcc gtt gcc gtc gat acc ggg atc ttc acc ggt 192
 42 Leu Thr Asn Leu Gly Ala Val Ala Val Asp Thr Gly Ile Phe Thr Gly
 43 50 55 60
 45 cgt tca cca aaa gat aag tat atc gtc cgt gac gat acc act cgc gat 240
 46 Arg Ser Pro Lys Asp Lys Tyr Ile Val Arg Asp Asp Thr Thr Arg Asp
 47 65 70 75 80
 49 act ttc tgg tgg gca gac aaa ggc aaa ggt aag aac gac aac aaa cct 288
 50 Thr Phe Trp Trp Ala Asp Lys Gly Lys Gly Lys Asn Asp Asn Lys Pro
 51 85 90 95
 53 ctc tct ccg gaa acc tgg cag cat ctg aaa ggc ctg gtg acc agg cag 336
 54 Leu Ser Pro Glu Thr Trp Gln His Leu Lys Gly Leu Val Thr Arg Gln
 55 100 105 110
 57 ctt tcc ggc aaa cgt ctg ttc gtt gtc gac gct ttc tgt ggt gcg aac 384
 58 Leu Ser Gly Lys Arg Leu Phe Val Val Asp Ala Phe Cys Gly Ala Asn
 59 115 120 125
 62 ccg gat act cgt ctt tcc gtc cgt ttc atc acc gaa gtg gcc tgg cag 432

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/963,668

DATE: 10/10/2001

TIME: 10:56:12

Input Set : A:\000425 BTe ALL_Dpckaec.app

Output Set: N:\CRF3\10102001\I963668.raw

```

63 Pro Asp Thr Arg Leu Ser Val Arg Phe Ile Thr Glu Val Ala Trp Gln
64      130                      135                      140
66 gcg cat ttt gtc aaa aac atg ttt att cgc ccg agc gat gaa gaa ctg      480
67 Ala His Phe Val Lys Asn Met Phe Ile Arg Pro Ser Asp Glu Glu Leu
68 145.                      150                      155                      160
70 gca ggt ttc aaa cca gac ttt atc gtt atg aac ggc gcg aag tgc act      528
71 Ala Gly Phe Lys Pro Asp Phe Ile Val Met Asn Gly Ala Lys Cys Thr
72                      165                      170                      175
74 aac ccg cag tgg aaa gaa cag ggt ctc aac tcc gaa aac ttc gtg gcg      576
75 Asn Pro Gln Trp Lys Glu Gln Gly Leu Asn Ser Glu Asn Phe Val Ala
76                      180                      185                      190
78 ttt aac ctg acc gag cgc atg cag ctg att ggc ggc acc tgg tac ggc      624
79 Phe Asn Leu Thr Glu Arg Met Gln Leu Ile Gly Gly Thr Trp Tyr Gly
80                      195                      200                      205
82 ggc gaa atg aag aaa ggg atg ttc tcg atg atg aac tac ctg ctg ccg      672
83 Gly Glu Met Lys Lys Gly Met Phe Ser Met Met Asn Tyr Leu Leu Pro
84                      210                      215                      220
86 ctg aaa ggt atc gct tct atg cac tgc tcc gcc aac gtt ggt gag aaa      720
87 Leu Lys Gly Ile Ala Ser Met His Cys Ser Ala Asn Val Gly Glu Lys
88 225                      230                      235                      240
90 ggc gat gtt gcg gtg ttc ttc ggc ctt tcc ggc acc ggt aaa acc acc      768
91 Gly Asp Val Ala Val Phe Phe Gly Leu Ser Gly Thr Gly Lys Thr Thr
92                      245                      250                      255
94 ctt tcc acc gac ccg aaa cgt cgc ctg att ggc gat gac gaa cac ggc      816
95 Leu Ser Thr Asp Pro Lys Arg Arg Leu Ile Gly Asp Asp Glu His Gly
96                      260                      265                      270
98 tgg gac gat gac ggc gtg ttt aac ttc gaa ggc ggc tgc tac gca aaa      864
99 Trp Asp Asp Asp Gly Val Phe Asn Phe Glu Gly Gly Cys Tyr Ala Lys
100                      275                      280                      285
102 act atc aag ctg tcg aaa gaa gcg gaa cct gaa atc tac aac gct atc      912
103 Thr Ile Lys Leu Ser Lys Glu Ala Glu Pro Glu Ile Tyr Asn Ala Ile
104                      290                      295                      300
106 cgt cgt gat gcg ttg ctg gaa aac gtc acc gtg cgt gaa gat ggc act      960
107 Arg Arg Asp Ala Leu Leu Glu Asn Val Thr Val Arg Glu Asp Gly Thr
108 305                      310                      315                      320
110 atc gac ttt gat gat ggt tca aaa acc gag aac acc cgc gtt tct tat      1008
111 Ile Asp Phe Asp Asp Gly Ser Lys Thr Glu Asn Thr Arg Val Ser Tyr
112                      325                      330                      335
114 ccg atc tat cac atc gat aac att gtt aag ccg gtt tcc aaa gcg ggc      1056
115 Pro Ile Tyr His Ile Asp Asn Ile Val Lys Pro Val Ser Lys Ala Gly
116                      340                      345                      350
118 cac gcg act aag gtt atc ttc ctg act gct gat gct ttc ggc gtg ttg      1104
119 His Ala Thr Lys Val Ile Phe Leu Thr Ala Asp Ala Phe Gly Val Leu
120                      355                      360                      365
123 ccg ccg gtt tct cgc ctg act gcc gat caa acc cag tat cac ttc ctc      1152
124 Pro Pro Val Ser Arg Leu Thr Ala Asp Gln Thr Gln Tyr His Phe Leu
125                      370                      375                      380
127 tct ggc ttc acc gcc aaa ctg gcc ggt act gag cgt ggc atc acc gaa      1200
128 Ser Gly Phe Thr Ala Lys Leu Ala Gly Thr Glu Arg Gly Ile Thr Glu

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/963,668

DATE: 10/10/2001

TIME: 10:56:12

Input Set : A:\000425 BTe AL1_Dpckaec.app

Output Set: N:\CRF3\10102001\I963668.raw

129	385				390					395					400		
131	ccg	acg	cca	acc	ttc	tcc	gct	tgc	ttc	ggc	gcg	gca	ttc	ctg	tcg	ctg	1248
132	Pro	Thr	Pro	Thr	Phe	Ser	Ala	Cys	Phe	Gly	Ala	Ala	Phe	Leu	Ser	Leu	
133					405					410					415		
135	cac	ccg	act	cag	tac	gca	gaa	gtg	ctg	gtg	aaa	cgt	atg	cag	gcg	gcg	1296
136	His	Pro	Thr	Gln	Tyr	Ala	Glu	Val	Leu	Val	Lys	Arg	Met	Gln	Ala	Ala	
137				420						425				430			
139	ggc	gcg	cag	gct	tat	ctg	gtt	aac	act	ggc	tgg	aac	ggc	act	ggc	aaa	1344
140	Gly	Ala	Gln	Ala	Tyr	Leu	Val	Asn	Thr	Gly	Trp	Asn	Gly	Thr	Gly	Lys	
141				435						440				445			
143	cgt	atc	tcg	att	aaa	gat	acc	cgc	gcc	att	atc	gac	gcc	atc	ctc	aac	1392
144	Arg	Ile	Ser	Ile	Lys	Asp	Thr	Arg	Ala	Ile	Ile	Asp	Ala	Ile	Leu	Asn	
145		450								455				460			
147	ggt	tcg	ctg	gat	aat	gca	gaa	acc	ttc	act	ctg	ccg	atg	ttt	aac	ctg	1440
148	Gly	Ser	Leu	Asp	Asn	Ala	Glu	Thr	Phe	Thr	Leu	Pro	Met	Phe	Asn	Leu	
149	465					470					475				480		
151	gcg	atc	cca	acc	gaa	ctg	ccg	ggc	gta	gac	acg	aag	att	ctc	gat	ccg	1488
152	Ala	Ile	Pro	Thr	Glu	Leu	Pro	Gly	Val	Asp	Thr	Lys	Ile	Leu	Asp	Pro	
153				485						490				495			
155	cgt	aac	acc	tac	gct	tct	ccg	gaa	cag	tgg	cag	gaa	aaa	gcc	gaa	acc	1536
156	Arg	Asn	Thr	Tyr	Ala	Ser	Pro	Glu	Gln	Trp	Gln	Glu	Lys	Ala	Glu	Thr	
157				500						505				510			
159	ctg	gcg	aaa	ctg	ttt	atc	gac	aac	ttc	gat	aaa	tac	acc	gac	acc	cct	1584
160	Leu	Ala	Lys	Leu	Phe	Ile	Asp	Asn	Phe	Asp	Lys	Tyr	Thr	Asp	Thr	Pro	
161			515							520				525			
163	gcg	ggt	gcc	gcg	ctg	gta	gcg	gct	ggt	ccg	aaa	ctg	taa				1623
164	Ala	Gly	Ala	Ala	Leu	Val	Ala	Ala	Gly	Pro	Lys	Leu					
E--> 165		530					535					540					

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/963,668

DATE: 10/10/2001

TIME: 10:56:13

Input Set : A:\000425 BTe AL1_Dpckaec.app

Output Set: N:\CRF3\10102001\I963668.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:165 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1622 Found:1623 SEQ:1



Creation date: 01-28-2004

Indexing Officer: SSISOUVONG - SOURYACHANH SISOUVONG

Team: OIPEBackFileIndexing

Dossier: 09963668

Legal Date: 06-21-2002

No.	Doccode	Number of pages
1	IDS	1
2	NPL	1
3	NPL	7
4	NPL	1
5	NPL	9
6	NPL	1
7	NPL	3

Total number of pages: 23

Remarks:

Order of re-scan issued on